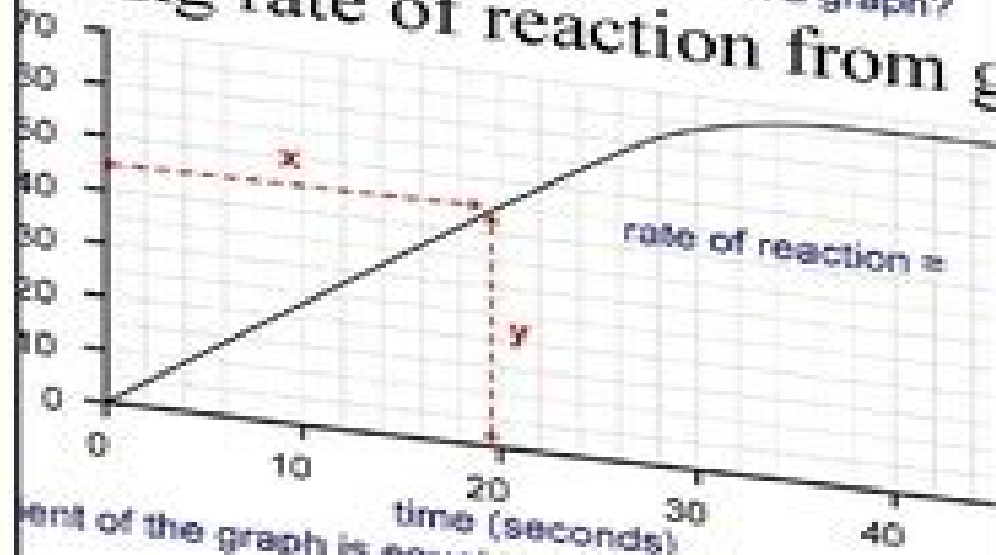


THERMOCHEMISTRY

How can the rate of reaction be calculated from a graph?



What is the rate of reaction at 20 seconds?

$$\text{rate of reaction} = \frac{45 \text{ cm}^3}{20 \text{ s}}$$

REVERSE REACTIONS

As products form, it speeds up. But, as products form, it speeds up. At some point there will come a time when the rate of the forward reaction is equal and opposite; the reaction has reached equilibrium.



FASTEST
NO BACKWARD



FORWARD REACTION
AS REACTANT



BACKWARD
STARTS TO

How does the rate of reaction change if you increase the pressure?

At constant temperature



Equilibrium
Shifts to the right
Increases the rate



Rate of reaction =

REACTIONS

Thermochemistry Core Teaching Resources

Huangqi Zhang



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Open educational resources: policy, costs, transformation Miao, Fengchun, Mishra, Sanjaya, McGreal, Rory, 2016-04-18

Chemistry Education for a Sustainable Future Catherine H Middlecamp, Mary M Kirchhoff, Peter Mahaffy, Klaus Kümmerer, 2025-12-08 Now and in the years ahead we need to sustain all life on our planet How do we do this Chemistry the science of materials provides part of the answer to this question Practicing chemistry in a green and sustainable manner is essential to achieving a sustainable future However sustainability concepts seldom are taught in the chemistry classroom For example the connections between chemistry and systems thinking planetary boundaries sustainable development goals and ethics are not widely taught yet these all can inform how we can sustain life now and in the future Chemistry Education for a Sustainable Future addresses what our students need to learn today to help all people and the planet thrive This book provides a logical sequence of topics and offers chemistry educators practical strategies to equip today's students with the tools needed to become scientists and citizens who can responsibly contribute to a sustainable future **Teaching School Chemistry** Unesco, 1984 **Catalogue Number. Course Catalog** Anonymous, 2025-08-07 Reprint of the original first published in 1876 The Antigonos publishing house specialises in the publication of reprints of historical books We make sure that these works are made available to the public in good condition in order to preserve their cultural heritage **Monthly Catalogue, United States Public Documents**, 1994 **Biomedical Index to PHS-supported Research**, 1991

Basic Thermochemistry in Materials Processing Gabriel Plascencia, David Jaramillo, 2017-02-28 This book provides the reader with some thermochemistry notes The intention is to provide a simple easy to understand text which serves as a complimentary material to more complex books It also provide students and those beginning in the field with several application examples used in different areas of materials processing The book presents fully solved problems some quite often found in major metallurgical operations *General Catalog -- University of California, Santa Cruz* University of California, Santa Cruz, 2000 **UC Santa Cruz** University of California, Santa Cruz, 1999 **Scientific and Technical Organizations and Agencies Directory**, 1985 **ASEE ... Profiles of Engineering & Engineering Technology Colleges**, 1998 Stanford University Bulletin Stanford University, 1991 **Comprehensive Dissertation Index**, 1984 **Cumulated Index to the Books**, 1999 **Science** John Michels (Journalist), 2010 **Leaders in Education** James McKeen Cattell, Jaques Cattell, 1971 **Catalogs of Courses** University of California, Berkeley, 1981 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 The British National Bibliography Arthur James Wells, 1968 *Australian Government Publications*, 1985 **American Men of Science**, 1967

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